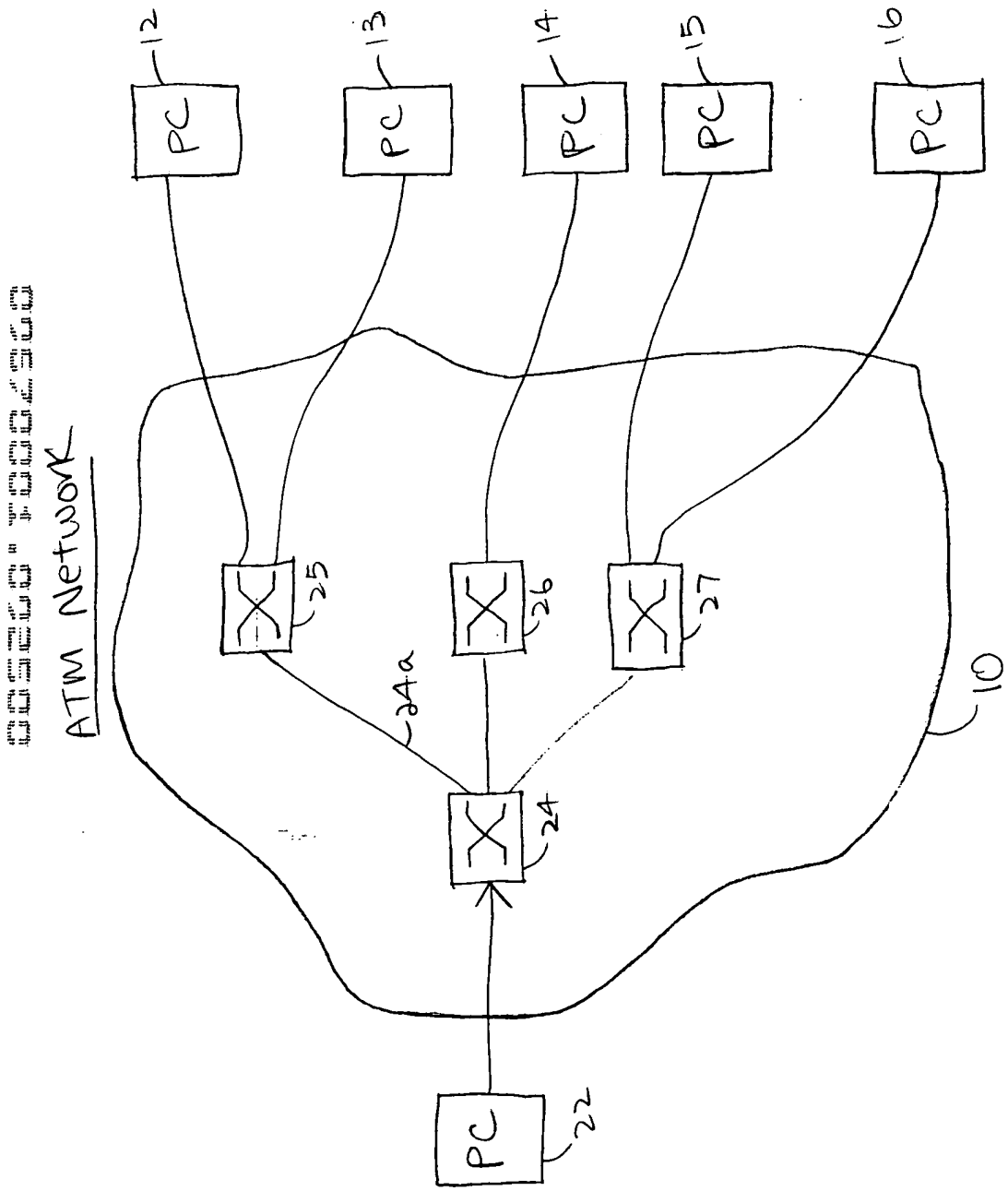

Fig. 1

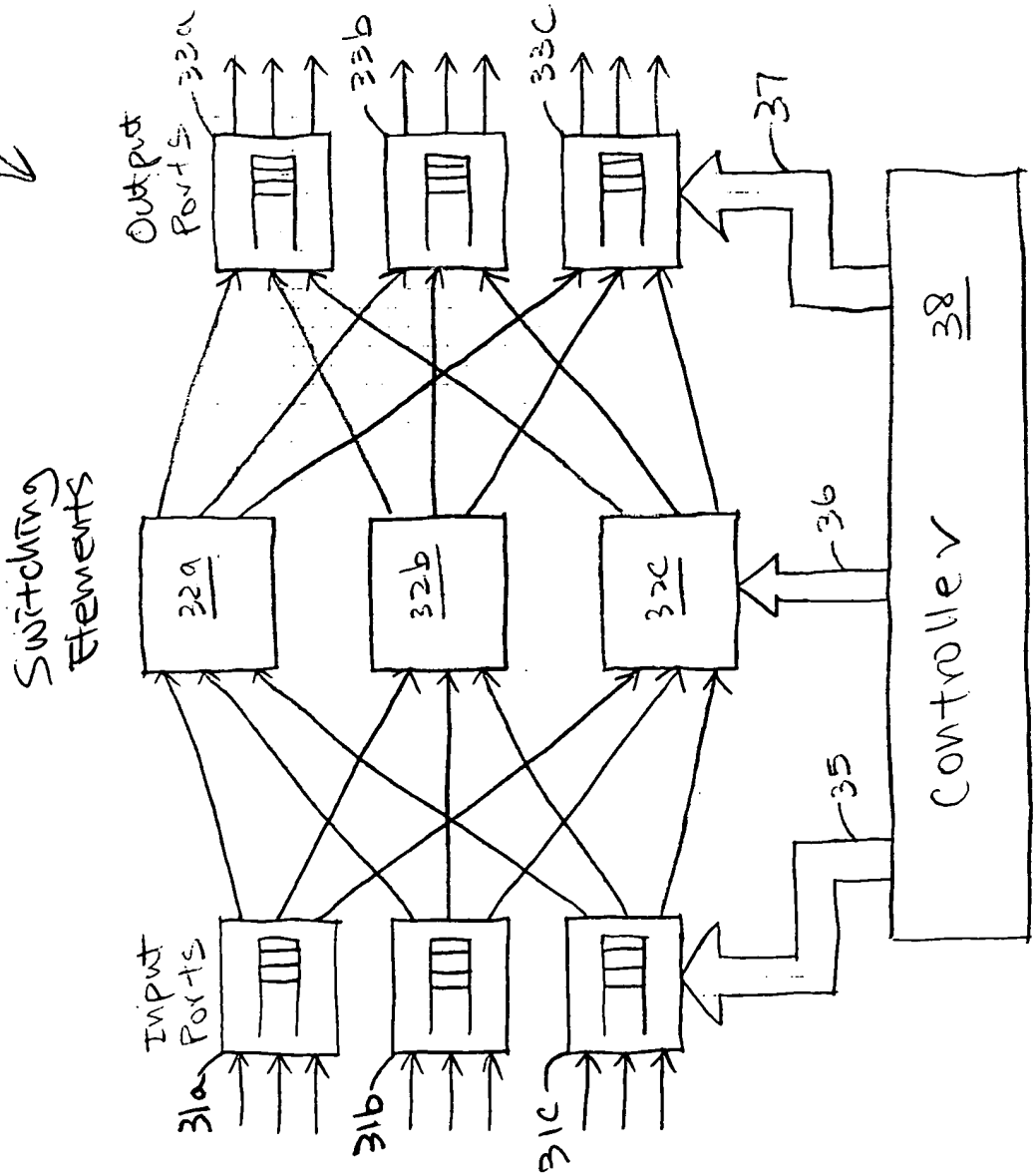
30
Output Ports
33a
33b
33c
37
38
Controller
36
35
Switching Elements
32a
32b
32c
Input Ports
31a
31b
31c

Fig. 2

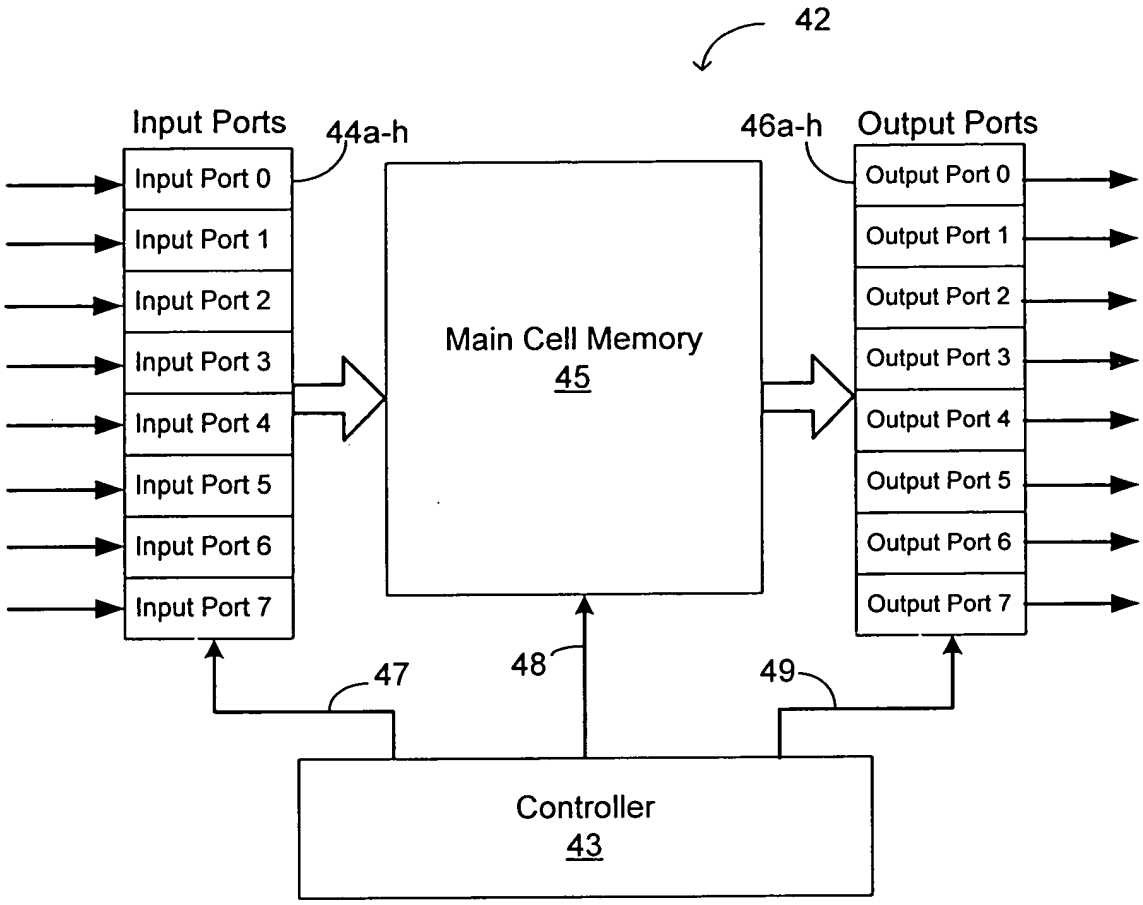
42
Input Ports
44a-h
46a-h
Output Ports
Input Port 0
Input Port 1
Input Port 2
Input Port 3
Input Port 4
Input Port 5
Input Port 6
Input Port 7
Main Cell Memory
45
Output Port 0
Output Port 1
Output Port 2
Output Port 3
Output Port 4
Output Port 5
Output Port 6
Output Port 7
47
48
49
Controller
43

Figure 3

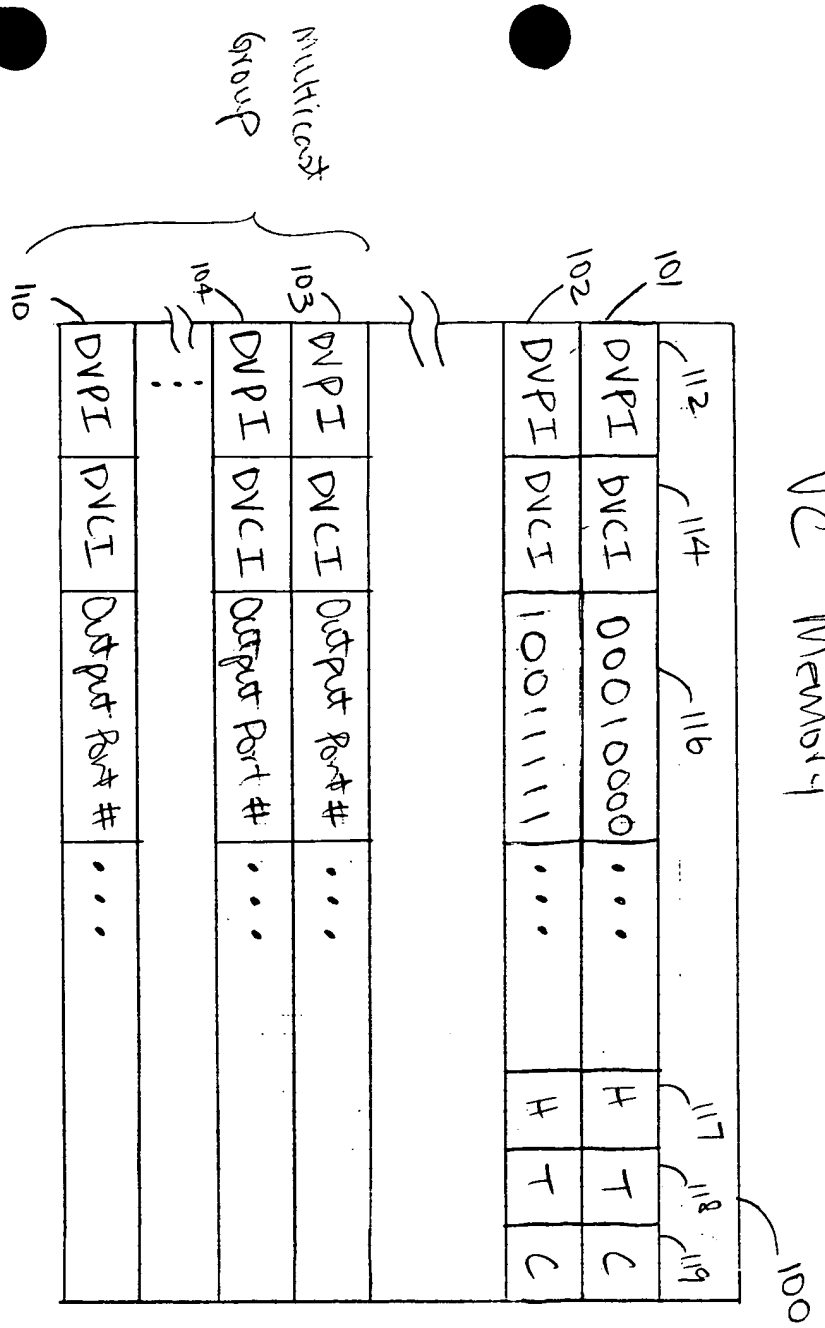
Multicast Group
VC Memory
110
104
103
102
101
DVPI
DVCI
Output Port #
1
0
0
0
0
0
0
0
1
0
0
1
1
1
1
1
H
T
C
112
114
116
117
118
119
100

Fig. 4

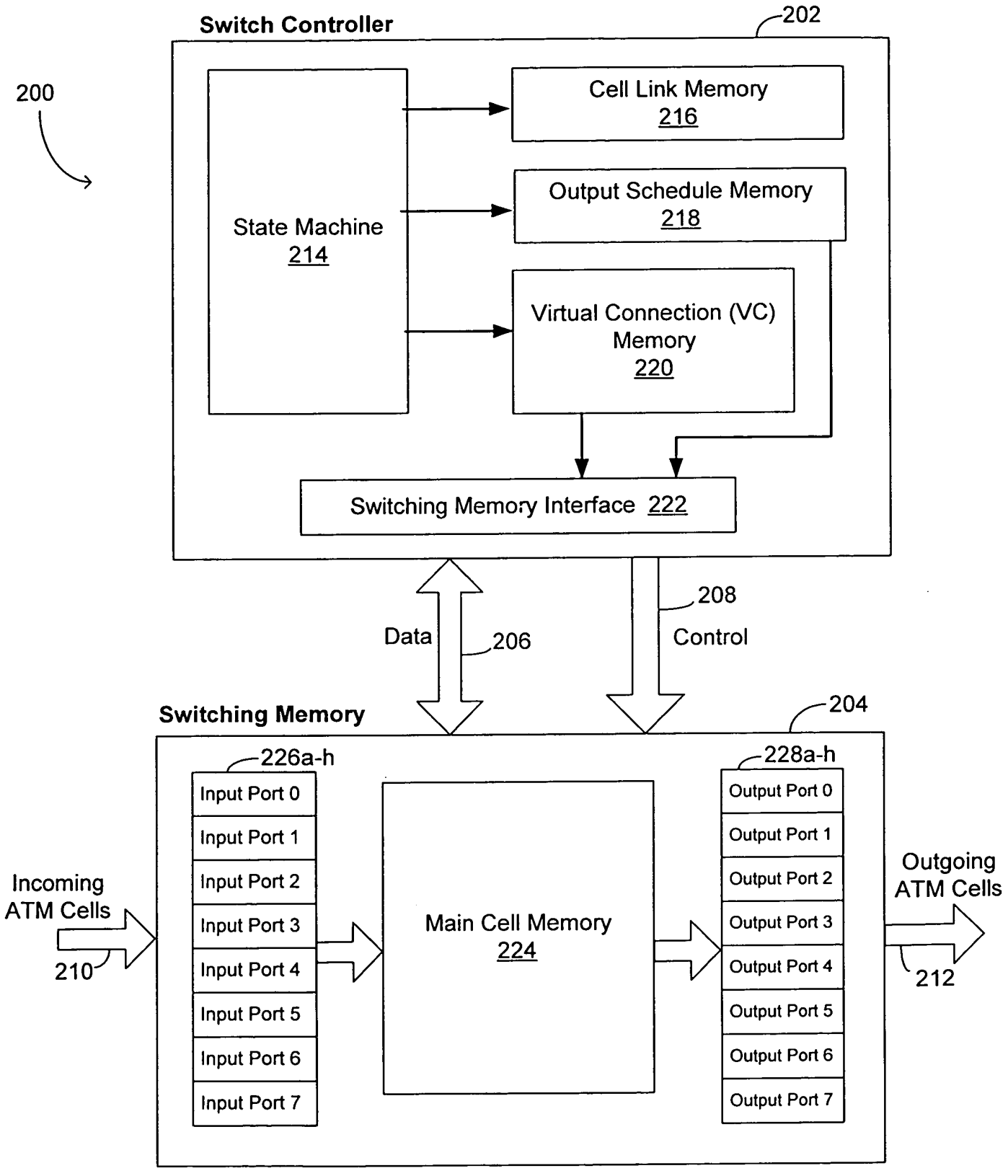
Switch Controller
202
200
State Machine
214
Cell Link Memory
216
Output Schedule Memory
218
Virtual Connection (VC)
Memory
220
Switching Memory Interface 222
Data
206
208
Control
Switching Memory
204
226a-h
Input Port 0
Input Port 1
Input Port 2
Input Port 3
Input Port 4
Input Port 5
Input Port 6
Input Port 7
Main Cell Memory
224
228a-h
Output Port 0
Output Port 1
Output Port 2
Output Port 3
Output Port 4
Output Port 5
Output Port 6
Output Port 7
Incoming
ATM Cells
210
Outgoing
ATM Cells
212

Figure 5

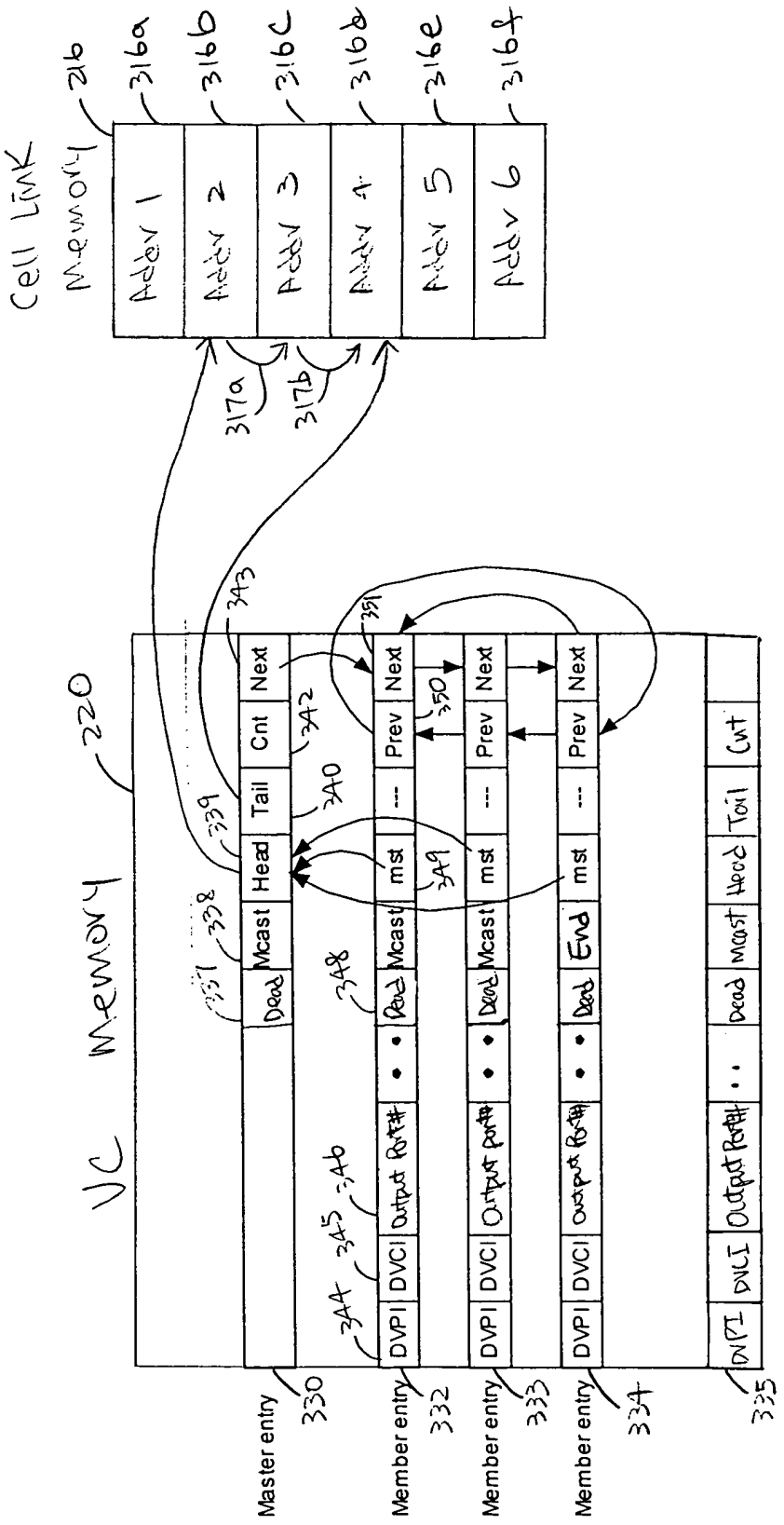
Cell Link Memory
216
316a
316b
316c
316d
316e
316f
Addr 1
Addr 2
Addr 3
Addr 4
Addr 5
Addr 6
317a
317b
VC Memory
220
Dead
Mcast
Head
Tail
Cnt
Next
Prev
mst
End
DVPI
DVCI
Output Port#
Dead
Mcast
Head
Tail
Cnt
Master entry
330
Member entry
332
Member entry
333
Member entry
334
335
338
339
340
342
343
344
345
346
348
349
350
351

Fig. 6

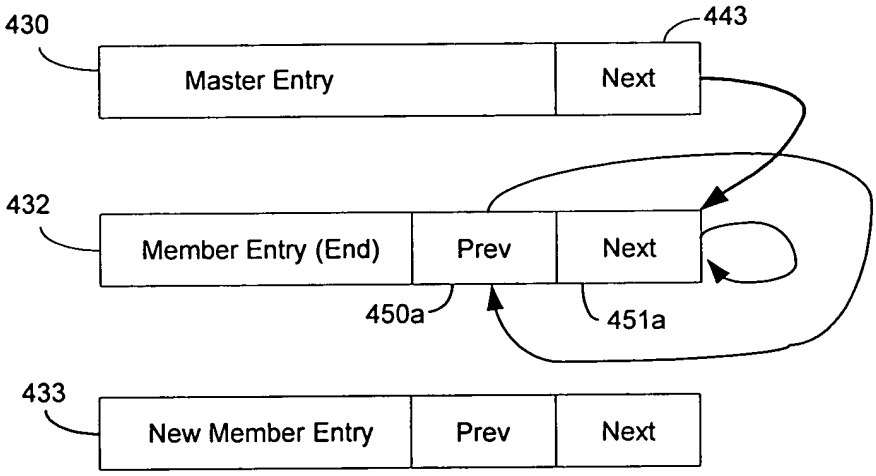

Figure 7a

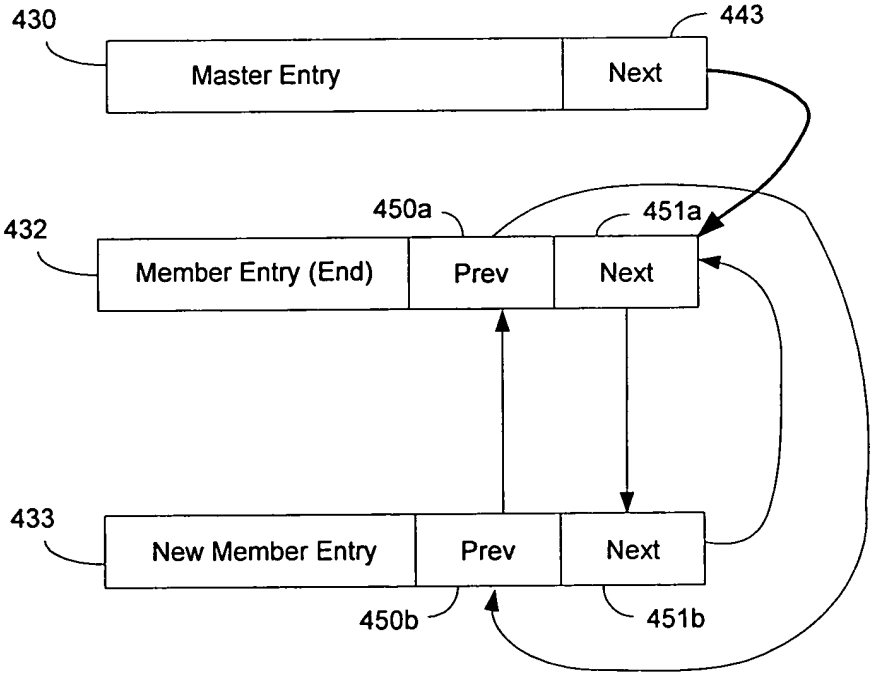

Figure 7b

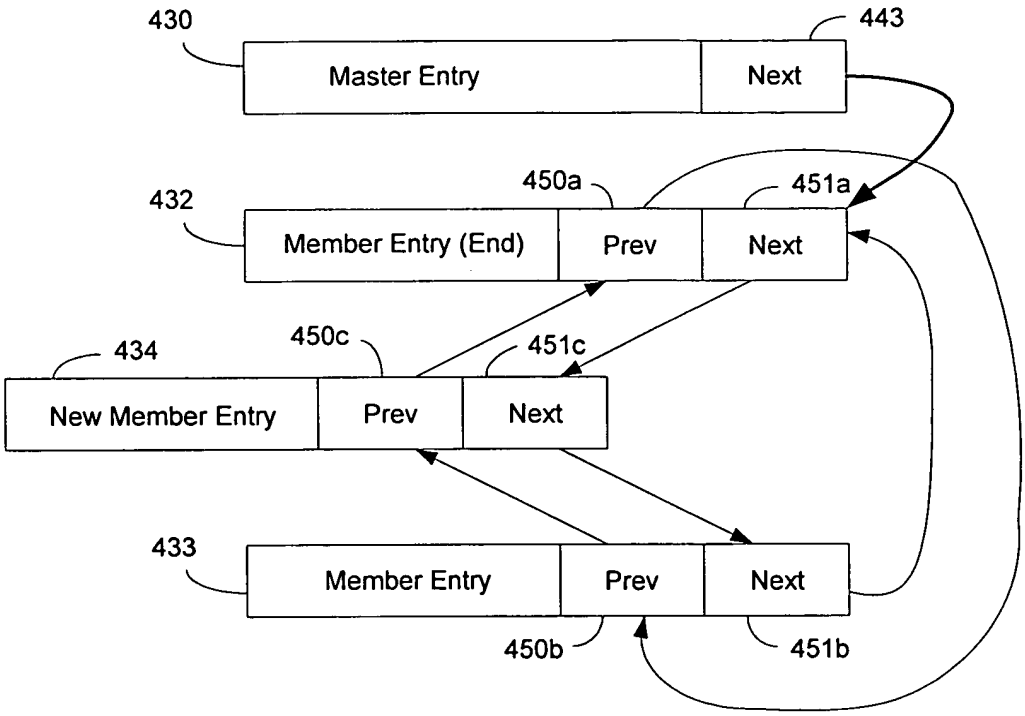
430
443
Master Entry
Next
450a
451a
432
Member Entry (End)
Prev
Next
450c
451c
434
New Member Entry
Prev
Next
433
Member Entry
Prev
Next
450b
451b

Figure 7c

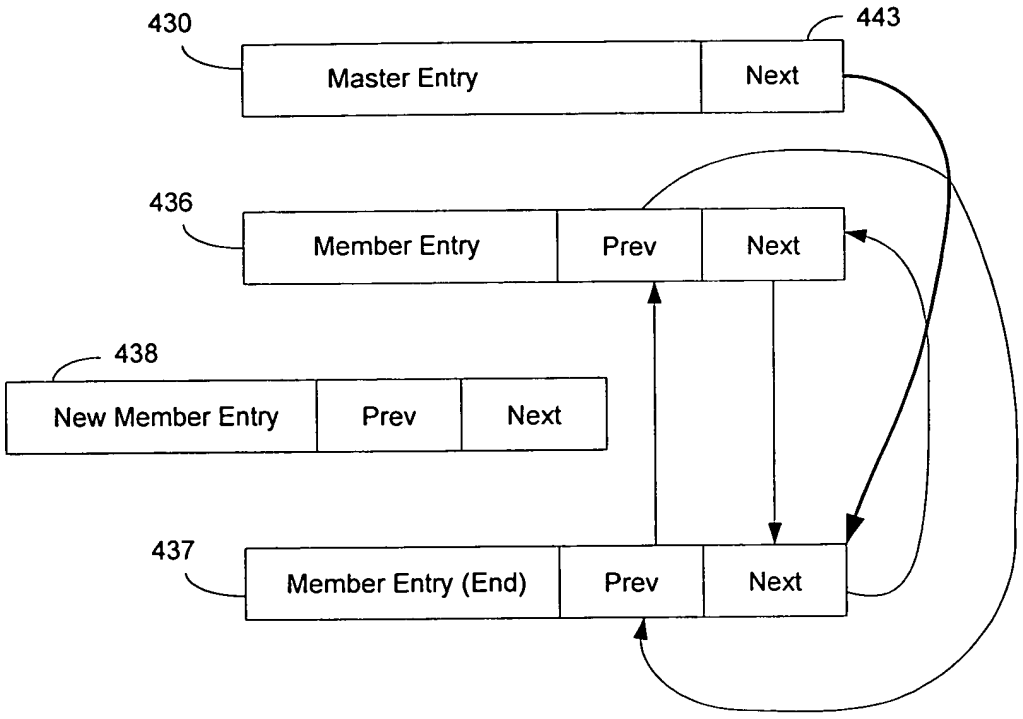

Figure 7d

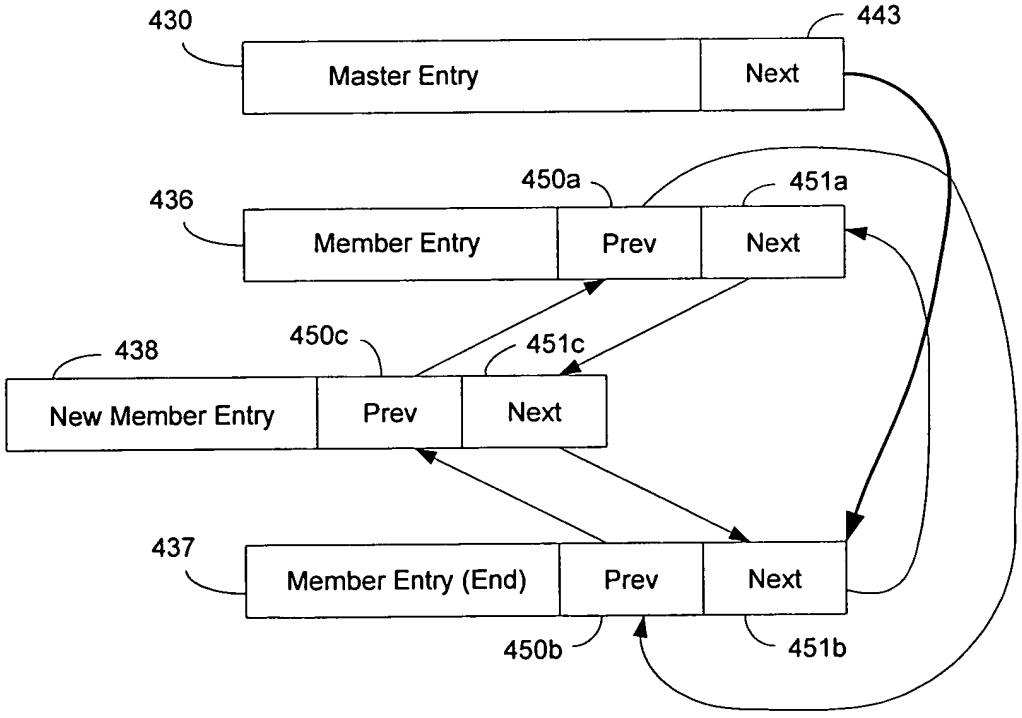

Figure 7e

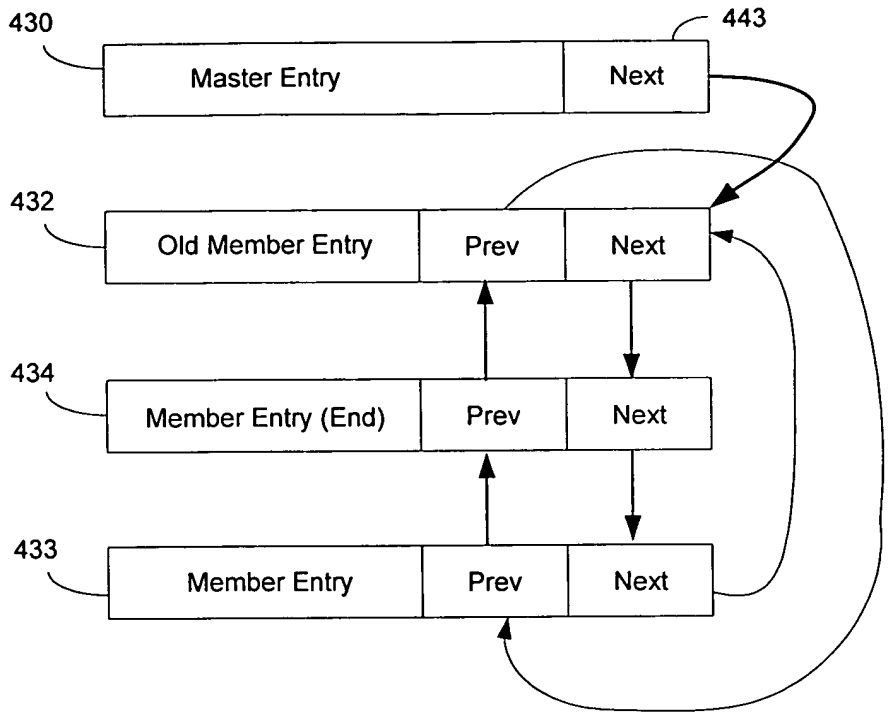

Figure 8a

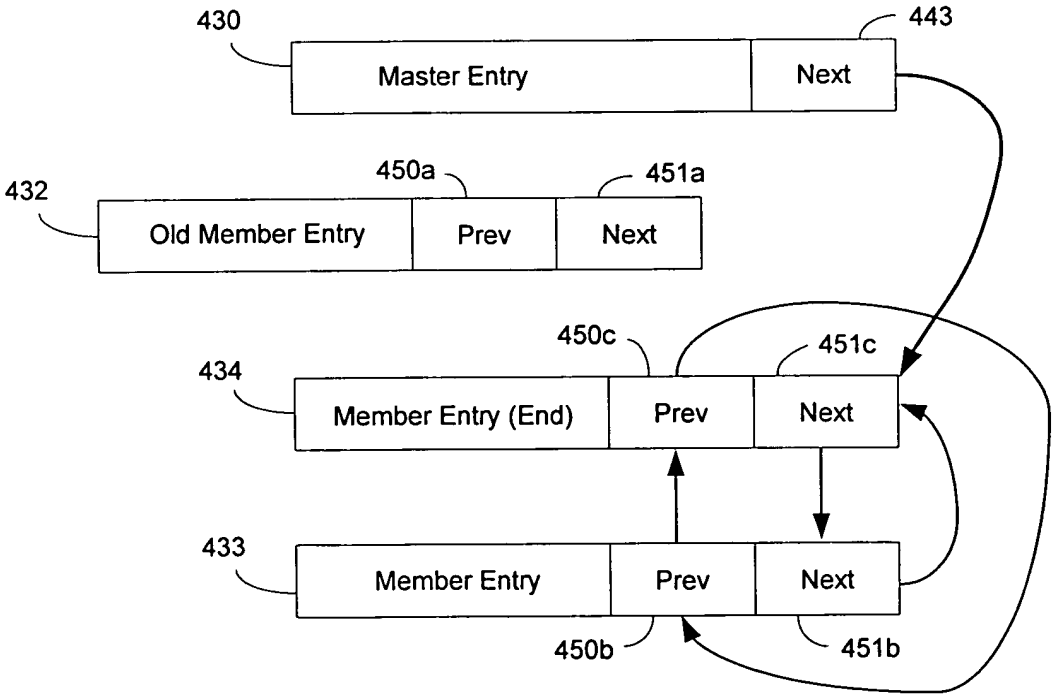

Figure 8b

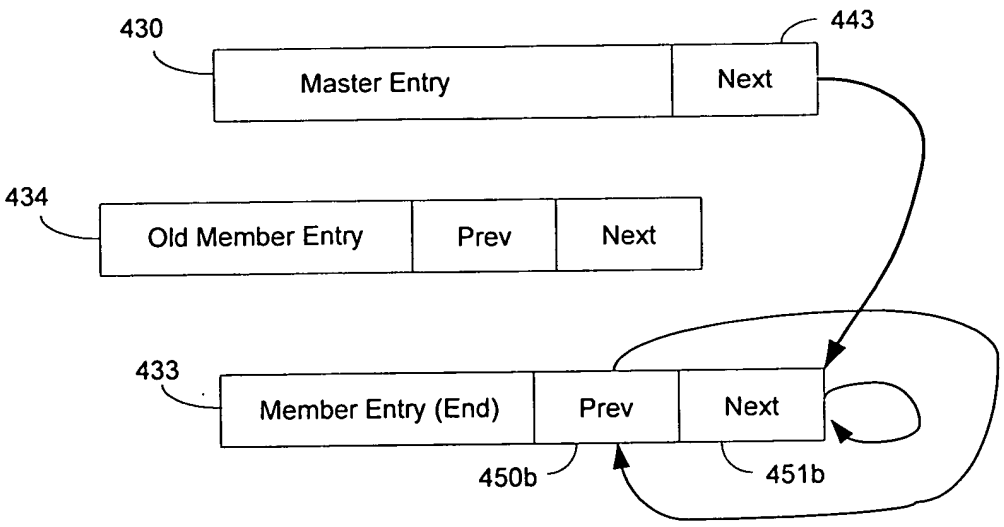
430
443
Master Entry
Next
434
Old Member Entry
Prev
Next
433
Member Entry (End)
Prev
Next
450b
451b

Figure 8c

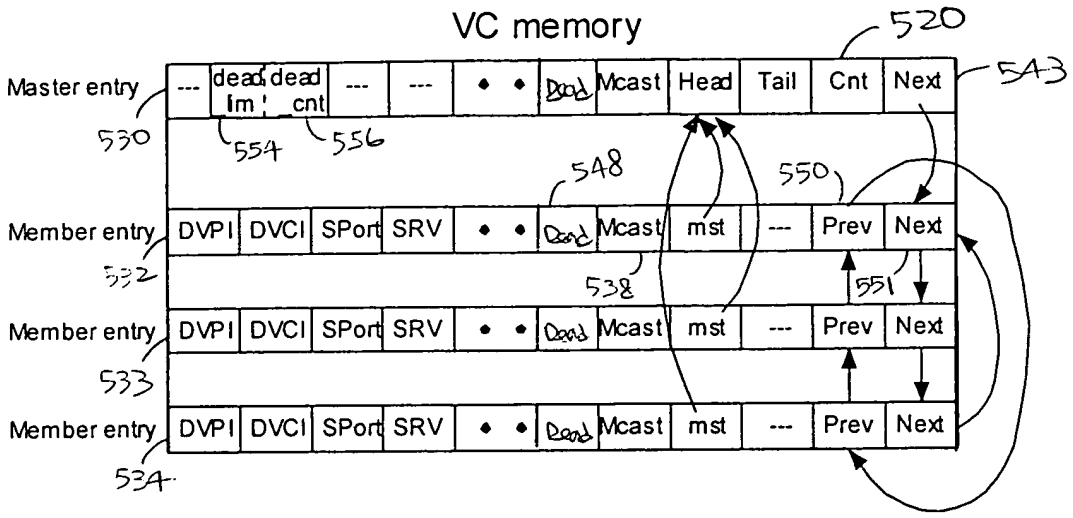
VC memory
520
Master entry
530
dead lim
dead cnt
554
556
543
Dead
Mcast
Head
Tail
Cnt
Next
548
550
Member entry
532
DVPI
DVCI
SPort
SRV
mst
Prev
538
551
Member entry
533
Member entry
534

Fig. 9

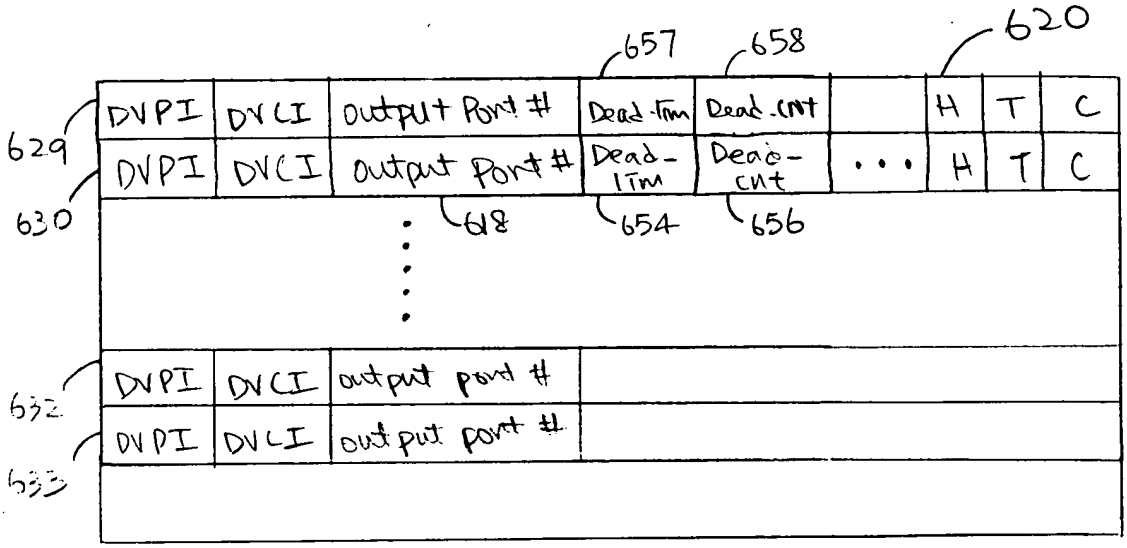
620
657
658
629
630
DVPI
DVCI
output Port #
Dead-tim
Dead-cnt
H
T
C
Dead-lim
Dead-cnt
648
654
656
632
633

Fig. 10